

VPHi Meet-the-Mentor Luncheon

6 September 2018 from 13.00 to 14.00
VPH2018 conference, Zaragoza (Spain)
vph-conference.org

The Meet-the-Mentor Luncheon is an event organized by the VPHi student committee to enhance the learning experience for PhD students. The luncheon offers trainees a special opportunity to meet and network with senior members of the community and receive career advice and insights.

The mentor panel is composed by both academic and industry representatives from different fields. A full list of the mentors is available below. Interested trainees shall register for the luncheon **not later than 29 August 2018**, by sending an email to manager@vph-institute.org.

Mandatory requirement:

The Meet-the-Mentor Luncheon is available to **VPHi student members only**.

Are you a VPHi student member?

You are considered a rightful student member, if you:

1. are affiliated to either an ordinary or a supporting member. Please check if your institution is in the list:

- www.vph-institute.org/membership/ordinary.html
- www.vph-institute.org/membership/supporting.html.

2. have already applied for a student membership. Your name in this case should appear here: www.vph-institute.org/membership/student.html

If you are not a member yet and you wish to apply now, the VPHi student membership comes at a symbolic cost of **10 € per year**.

Please fill up this form to process your application: www.vph-institute.org/register.html.

For any further questions, please contact manager@vph-institute.org.

Registrants are requested to submit their mentor choices (**minimum of 2 mentor options**) and seating will be assigned on a first-come-first-served basis, for a maximum of 6 students for mentor. Once the registration process will be closed, a schedule of the event will be made available to all registrants.

Mentor list

| Name | Organisation | Sector |
|-------------------------------|---|---------------|
| Alfio Quarteroni | Politecnico of Milan | Academic |
| Blanca Rodriguez | University of Oxford | Academic |
| Lies Geris | Universities of Liège and KUL – Leuven | Academic |
| Peter Hunter | Auckland Bioengineering Institute | Academic |
| Ravi Iyengar | Icahn School of Medicine at Mount Sinai | Academic |
| Esther Pueyo | University of Zaragoza | Academic |
| Nico Verdonschot | University of Twente | Academic |
| Zahra Asgharpour | New Venture – Carl Zeiss AG | Industry |
| Angel Alberich Bayarri | QUIBIM SL – Quantitative Imaging Biomarkers in Medicine | Industry |
| Luca Emili | insilicotrials.com | Industry |
| Mark Palmer | Medtronic | Industry |
| Thierry Marchal | Ansys | Industry |

Below, also a short biosketch of every mentor:

Alfio Quarteroni - Politecnico of Milan



Alfio Quarteroni is Professor of Numerical Analysis and Director of MOX at the Politecnico of Milan (Italy). Formerly he was Director of the Chair of Modelling and Scientific Computing at the EPFL (Swiss Federal Institute of Technology), Lausanne (Switzerland), from 1998 until the end of 2017. He is the founder (and first director) of MOX at Politecnico of Milan (2002) and MATHICSE at EPFL, Lausanne (2010). He is author of 25 books, editor of 9 books, author of more than 350 papers in international Scientific Journals and Conference Proceedings, member of the editorial board of 25 International Journals and Editor in Chief of two book series published by Springer. He is the Recipient of the two ERC Advanced Grants and of two ERC PoC grants. Recipient of the Galileian Chair from the Scuola Normale Superiore, Pisa, doctor Honoris Causa in Naval Engineering from University of Trieste, Italy, SIAM Fellow (first row), IACM (International Association of Computational Mechanics) Fellow. He is member of the Italian Academy of Science, the European Academy of Science, and the Academia Europaea.

For further information: <https://mox.polimi.it/people/alfio-quarteroni/>

Blanca Rodriguez - University of Oxford



Blanca Rodriguez is currently a Wellcome Trust Senior Research Fellow in Basic biomedical Science and Professor of Computational Medicine. Her research interest is in the investigation of causes and modulators of variability in the response of the heart to disease and therapies, using multiscale modelling and simulation. She actively collaborates with world-leading experimental and clinical collaborators in academia and industry. She was born in Valencia, Spain, where she attended the Lycee Francais de Valencia, and graduated as an Electronics Engineer from the Universidad Politecnica de Valencia, Spain, in 1997. She then started a PhD in the Integrated Laboratory of Bioengineering supervised by Prof. Chema Ferrero and at the same time taught Electronics and Biomedical Instrumentation at the Universidad Politecnica de Valencia. After graduating in 2001, she joined Prof. Natalia Trayanova's group at Tulane University in New Orleans (now at Johns Hopkins University), as a Postdoctoral Research Fellow. After spending two years in New Orleans, she joined Oxford University in August 2004, as a Senior Postdoctoral Fellow funded by the Integrative Biology Project. In 2016/07, she was awarded four intermediate fellowships, and she held a Medical Research Council Career Development fellowship until 2013. She is committed to training and career development of scientists in her group and widely acts as mentor of more junior colleagues. She also enjoys an active family life with her three children and husband, and a very large extended family in Spain.

For further information: www.cs.ox.ac.uk/people/blanca.rodriguez/

Lies Geris - Universities of Liège and KUL – Leuven



Liesbet Geris is Collen-Francqui Research Professor in Biomechanics and Computational Tissue Engineering at the University of Liège and KU Leuven in Belgium. Her research focusses on the multi-scale and multi-physics modeling of biological processes. Together with her team and their clinical and industrial collaborators, she uses these models to investigate the etiology of non-healing fractures, to design in silico potential cell-based treatment strategies and to optimize manufacturing processes of these tissue engineering constructs. Liesbet is scientific coordinator of the Prometheus platform for Skeletal Tissue Engineering (50+ researchers). She has edited several books on computational modeling

and tissue engineering. She has received 2 prestigious ERC grants (starting in 2011 and consolidator in 2017) to finance her research and has received a number of young investigator and research awards. She is a former member and chair of the Young Academy of Belgium (Flanders) and member of the strategic alliance committee of the Tissue Engineering and Regenerative Medicine Society. She is the current executive director of the Virtual Physiological Human Institute and in that capacity she advocates the use of in silico modeling in healthcare through liaising with the clinical community, the European Commission and Parliament, regulatory agencies (EMA, FDA) and various other stakeholders. Besides her research work, she is often invited to give public lectures on the challenges of inter-disciplinarity in research, women in academia and digital healthcare.
For further information: <http://www.biomech.ulg.ac.be>

Ravi Iyengar - Icahn School of Medicine at Mount Sinai



Trained as a biochemist, Dr. Iyengar's research focuses on cell signaling networks with emphasis on heterotrimeric G protein pathways. His laboratory uses a combination of experimental and computational approaches to understand the regulatory and information processing capabilities of cellular signaling networks. Among his research interest, he is mostly devoted to: Systems pharmacology and systems biology, computational cell biology, cellular signaling networks, spatial modeling of cell signaling, G-protein mediated intracellular signaling in neurons, and spatiotemporal organization of cellular networks. He has been awarded twice by the National Institute of Health (USA) and has been elected as part of the American Association for the Advancement of Science and the American Heart Association.

For further information: <https://icahn.mssm.edu/research/systems-biomedicine>

Esther Pueyo - University of Zaragoza



Esther Pueyo is Associate Professor at University of Zaragoza and Senior Research Scientist at CIBER-BBN, Spain. She has long-standing research experience in biomedical signal processing and in electrophysiological modeling and simulation. Her investigations involve a wide network of active collaborations all over the world. Esther Pueyo has participated as Principal Investigator (PI) or Collaborator in 47 European, national and regional research projects. She is currently PI of an ERC Starting Grant, funded with 1.5 M€, where she uses a systems biology approach to investigate human heart aging. She is / has been PI of 7 other grants. She has and is actively participating in 4 projects led by the European Space Agency, 2 EU-funded H2020 Marie Curie Innovative Training Networks and 1 EU-funded FP7 project. Esther Pueyo has co-authored 135 peer-reviewed publications and she has contributed with more than 100 conference communications. More than 75% of her publications are in the top third of JCR ranking. She regularly delivers invited talks, is a reviewer for twenty different JCR journals, Editorial Board member of Physiological Measurement and Associate Editor of Frontiers in Physiology, PLOS ONE and Communications in Nonlinear Science and Numerical Simulations. She has supervised / is supervising 6 postdoctoral researchers and 12 PhD students.

For further information: www.estherpueyo.com

Peter Hunter - Auckland Bioengineering Institute



Professor Peter Hunter FRS is Director of the Auckland Bioengineering Institute (ABI) and Director of the Medical Technologies Centre of Research Excellence (MedTech CoRE). His research interests are in modeling human physiology using an anatomical and biophysically-based multiscale approach that links molecular processes to tissue level phenotypes.

He was awarded the Rutherford Medal and a KEA World Class NZ award in 2009 and appointed to the NZ Order of Merit in 2010. He is an elected Fellow of the Royal Society (London and NZ), Chair of the International Academy of Medical and Biological Engineering, and President-elect of the World Council of Biomechanics.

For further information: www.abi.auckland.ac.nz/people/p-hunter

Nico Verdonschot - University of Twente



In 1988 Nico Verdonschot started his master thesis in Nijmegen at the Orthopaedic Research Laboratory (ORL). Mid 1989 he received my M.Sc. in (Bio-)Mechanical Engineering from the University of Twente. Ever since his graduation he stayed at the ORL. As Junior Researcher Nico performed various kinds of projects focusing on testing of orthopaedic implants. Most projects were funded by the Orthopaedic Industry which gradually led to an extensive network of R&D departments from small to large international orthopaedic companies. The publications of these projects resulted in his Ph.D. degree in 1995 on a thesis entitled "Biomechanical Failure Scenarios in Cemented Total Hip Replacement". Subsequently he was promoted to Assistant Professor and was

appointed to be Director of Pre-clinical testing of joint implants. In 2003 Nico was further promoted to Associate Professor. In October 2007 he started a part-time appointment (1 day per week) at the University of Twente, where he has set up a research line related to clinical biomechanics of the musculoskeletal system in collaboration with his clinical colleagues at the Radboud Medical Centre. Since February 2014 he is a full professor in Biomechanical diagnostics and evaluation methods in orthopaedics at the Radboud university medical center. Since September 1st 2015, he is chair of the ORL. In December 2012, he was awarded a 'European Research Council – Advanced Grant' entitled 'Biomechanical Diagnostic, Pre-Planning and Outcome Tools to improve Musculoskeletal Surgery', acronym 'BioMechTools'.

For further information: orthopaedicresearchlab.nl/people/scientific-staff/nico-verdonschot-ph-d/

Zahra Asgharpour – Carl Zeiss AG



Currently, as Senior Manager for New Venture at Carl Zeiss AG she works actively to enable and accelerate the development and commercialization of market shaping innovations that will support Zeiss to achieve and defend its position as global technology leader in field of optics, opto-electronics and precision mechanics. Previously Zahra worked as a product manager- Mimics Innovation Suite for the academic market segment in the medical unit of Materialise N.V., an industry leader in manufacturing of patient-specific implants and software solutions for virtual medicine & computer- based methods for diagnosis, pre-surgical planning and additive manufacturing. She also worked for a couple of years at a joint-venture of AUDI AG leading a project on human

body modelling with a focus on development of a method to automatize the process of injury prediction using human body models. Zahra received her PhD in Human Biology at the Medical Faculty of Ludwig Maximilian

University of Munich with a thesis entitled 'Numerical Analysis of Injuries to Long Bones and Human Skull and Brain during Impacts'. She has authored 20 publications in Journals and International Conferences.

For further information: www.linkedin.com/in/zahra-asgharpour/

Angel Alberich Bayarri - QUIBIM SL – Quantitative Imaging Biomarkers in Medicine



Telecommunications Engineer with specialisation in electronics by the Polytechnic University of Valencia (2002-2007) and PhD in Biomedical Engineering (2010) by the same university for his research on the application of advanced image processing techniques to magnetic resonance imaging. In the professional aspect he is scientific-technical director of the Biomedical Imaging Research Group of the Polytechnics and University Hospital La Fe, as well as founder and director of the spin-off company QUIBIM (Quantitative Imaging Biomarkers in Medicine), dedicated to the advanced analysis of medical images. In the research field, he is the author of more than 50 scientific articles in prestigious international journals and inventor of 2 patents. He is also the author of more than 80 communications to international congresses, editor of 2 books and author of 15 book chapters. He is member of the Board of Directors of the European Society of Medical Imaging Informatics (EUSOMII) and member of the e-Health Committee of the European Society of Radiology. In 2015, he was appointed by the Massachusetts Institute of Technology (MIT) as one of the young innovators under the age of 35 to be considered. **For further information:** <http://quibim.com/>

Luca Emili - insilicotrials.com



Luca Emili is founder and CEO of Insilicotrials Technologies, the first global platform that allows pharmaceutical and medical devices companies to accelerate research and development through models and simulations. With a strong passion for technology, he is focused on the development of the company for the definition of partnership with Research centers, hospitals and pharma and medical devices companies and the development of new innovative technology and services. Prior to founding Insilicotrials Technologies he worked in M&A and acted as an investor in some SME companies. From 2001 to 2010 was CEO of Emaze, an IT Security Company backed by Alice Venture, Venture Capital with funds from Mediobanca, Generali, Pirelli, Bracco, Dompè and other Italian firms. As a journalist, he published more than 40 articles on IT security Journals. Before Emaze He was a professor of IT at the MIB School of Management of Trieste, as well as an entrepreneur in the internet services business. He has a degree in Economy and Business from the University of Trieste.

For further information: insilicotrials.com

Mark Palmer - Medtronic



Mark Palmer is a Senior Principal Scientist leading Mechanics and Modeling in the Core Technologies Group within the Strategy and Scientific Operations organization for Medtronic, plc. Dr Palmer received his BS in Mechanical & Aerospace Engineering from Princeton University, dual Masters in Mechanical Engineering and Biomedical Engineering as well as MD and PhD in Mechanical Engineering from the University of Michigan. Following graduation, Dr Palmer worked as an entrepreneur for 3 years leveraging his custom, fully coupled, multiscale finite element modeling code for research and consulting for composites and analyses of age related changes in skeletal muscle. Dr. Palmer then returned to academia serving for 5 years as a tenure track faculty member

at the University of Michigan with dual appointments in Kinesiology and Biomedical Engineering. In 2014, Dr Palmer was recruited to Medtronic where his current role includes serving as an R&D Consultant and Technical Advisor for Medtronic Business Units world-wide, identifying and managing external collaborations, leading the long range R&T strategy for human simulation, and leading the Enterprise-wide Modeling & Simulation Working Group. Dr. Palmer also reports on modeling strategies and initiatives to the Board of Directors, Executive Committee, and functional Councils at Medtronic.

For further information: www.medtronic.com/us-en/index.html

Thierry Marchal – Ansys



As the ANSYS Global Industry Director since 2006, Thierry Marchal leads the medical devices, pharmaceutical and biotech strategy of ANSYS through the in silico and personalized medicine evolution by closely interacting with industrial innovators and SMEs, academic leaders and governmental and regulatory authorities such as the FDA and the EMA. Since January 2018, Thierry is the Secretary General of the Avicenna Alliance, a global not for profit organization of leading healthcare companies collaborating towards the adoption of in silico healthcare. In his 25+ years of professional experience, Thierry has worked as the Global Materials Market Segment Manager with Fluent and Product Manager for Polyflow. Thierry is the author of close

to 100 publications and communications; he holds a degree in Mechanical Engineering and a MBA both from Catholic University of Louvain, Belgium.

For further information: www.ansys.com